

IN THE CLAIMS

Please cancel Claims 21-30; and

Please add Claims 31-36 as follows:

Complete Listing Of The Claims In This Application

Claims 1-30 (cancelled); and

Claim 31 (new) A system for fabricating a pressure intensifier used in consolidation fabrication wherein two cured structures are bound together using an uncured preform configured to an angular shape of a bound area between said cured structures, said system comprising:

means for computer aid design of a virtual mold having at least two portions joinable to form an injection cavity indicative of said pressure intensifier;

said injection cavity having a first surface corresponding to an inner surface of said pressure intensifier and having a contour corresponding to said bound area;

said injection cavity further having a second surface corresponding to an outer surface of said pressure intensifier such that said first and second surfaces and corresponding inner and outer surfaces are designed for increasing pressure when said pressure intensifier is applied to said bound area;

a rapid prototyping apparatus having a data input for receiving a data file from said computer aide design means representative of said virtual mold and operably configured to fabricate a corresponding mold; and

means for injecting a curable fluid material in said injection cavity for producing said

pressure intensifier having said inner surface and said outer surface.

Claim 32 (new) The system of Claim 31, wherein said rapid prototyping apparatus includes a stereolithography apparatus.

Claim 33 (new) The system of Claim 31, wherein said fluid material is a room temperature vulcanizing silicone.

Claim 34 (new) The system of Claim 31, wherein a radius of said second surface is designed greater than a radius of said second surface such that they are cooperable for increasing pressure.

Claim 35 (new) The system of Claim 31, wherein said inner and outer surfaces are cooperable for increasing pressure to said bound area when said inner surface is applied to said bound area and a pressure is applied to said outer surface.

Claim 36 (new) The system of Claim 31, wherein said means for computer aid is a computer.